

2Q Environmental Proactive Event



Environmental Steering Team
Richmond Refinery, April 3, 2012

2012 Scorecard Events to date



- Jan 28, Hydro: Flaring due to wrong valve selected during routine EBV stroke check
- Feb 19, Cracking: Spilled 6 bbls of sulfur to grade when plugged line caused a seal failure
- Feb 27, Hydro: Reportable Quantity of SO₂ from North Yard flares due to unstable K-1900 operation at RLOP
- Mar 6, Hydro: Flaring due to a normally open valve in the closed position
- Mar 7, Hydro: Flaring due to a normally open valve in the closed position
- Mar 12, Cracking: XXX bbls of butane released from a leak in a drain line.

Preventing Environmental Incidents



How we think about and respond to Environmental Incidents has a direct impact on our business and our community. Have you ever considered what would happen if an Environmental Incident led to a more serious incident or injury?

Any small incident can lead to more significant injuries, PSM events, and serious regulatory penalties. These seemingly “minor” incidents serve as our signal that we are not doing every task, the right way, every time.

Part 1 (10 minutes)

1. Review incidents in your area – ***click here for incident list***
2. Select one or two incidents and discuss what could have been the worst outcome if those incidents were slightly different. For example, if a leak was near an ignition source, and left undetected by our workers?

Our commitment to ALWAYS



Part 2. What are we going to do about it? (15 minutes)

- A. Let's brainstorm and identify the actions, tools, and knowledge that we need to prevent environmental incidents. Start the discussion by asking:
- What tools do we need to use better in order to accomplish zero environmental incidents?
 - In what way do we need to maintain a sense of vulnerability to prevent environmental incidents and injuries?
 - In what ways can we increase our understanding of environmental incidents in order to prevent or minimize them?
- B. Next, select one to two actions that will contribute the most to us preventing environmental incidents. ***Record your results on response sheet.***
- C. Finally, we will each make a commitment to that action for the rest of 2012. We will share our plan with our Manager, and we will regularly reference our commitment during meetings and during our next proactive Environmental events during the 3rd and 4th quarters to see if we are making progress.

Resource Materials



- Cascading Information Sheet – describing the Proactive Event
- List of 2012 Environmental NLIs
- Action Plan Record sheet, to be returned to your Manager after discussion.
- What does good look like? Here are some examples of past proactive events that yielded action plans at the Hydro Business Unit.